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Kamen et al.(10) **Pub. No.: US 2021/0170097 A1**(43) **Pub. Date: Jun. 10, 2021**(54) **SYSTEM AND METHODS FOR FLUID DELIVERY****G01F 11/08** (2006.01)**H04B 7/26** (2006.01)**A61M 5/145** (2006.01)(71) Applicant: **DEKA Products Limited Partnership,**
Manchester, NH (US)(52) **U.S. Cl.**CPC **A61M 5/14244** (2013.01); **Y10T 29/49828**(2015.01); **A61M 5/142** (2013.01); **A61M****5/16886** (2013.01); **G08C 17/02** (2013.01);**G05D 7/0647** (2013.01); **A61M 5/16809**(2013.01); **G05D 7/0676** (2013.01); **A61M****5/14248** (2013.01); **A61M 5/14224** (2013.01);**G01F 11/086** (2013.01); **H04B 7/2609**(2013.01); **A61M 5/1723** (2013.01); **A61M****5/14586** (2013.01); **A61M 2005/16863**(2013.01); **A61M 2205/8237** (2013.01); **A61M****2209/045** (2013.01); **A61M 2005/14268**(2013.01); **A61M 2205/0266** (2013.01); **A61M****2205/332** (2013.01); **A61M 2205/50** (2013.01);**A61M 2205/3546** (2013.01); **A61M 2206/22**(2013.01); **A61M 2205/3375** (2013.01); **A61M****2205/3368** (2013.01); **A61M 2230/201**(2013.01); **A61M 2205/3331** (2013.01); **Y10T****29/49236** (2015.01); **Y10T 29/49826**(2015.01); **Y10T 29/49412** (2015.01); **A61M****2205/3576** (2013.01); **A61M 2205/0294**(2013.01); **A61M 2205/52** (2013.01); **Y10T****29/494** (2015.01); **A61M 2205/18** (2013.01);**A61M 5/172** (2013.01)(21) Appl. No.: **16/998,741**(22) Filed: **Aug. 20, 2020****Related U.S. Application Data**

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(57)

ABSTRACT

A system for at least partial closed-loop control of a medical condition is disclosed. The system includes at least one medical fluid pump. The medical fluid pump including a sensor for determining the volume of fluid pumped by the pump. Also, at least one continuous analyte monitor, and a controller. The controller is in communication with the medical fluid pump and the at least one continuous analyte monitor. The controller includes a processor. The processor includes instructions for delivery of medical fluid based at least on data received from the at least one continuous analyte monitor.

